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1   An integrated approach for scaling up classification and prediction algorithms for data mining
Patricia E. N. Lutu
September 2002 **SAICSIT '02:** Proceedings of the 2002 annual research conference of the South African Institute of computer scientists and information technologists on Enablement through technology
Publisher: South African Institute for Computer Scientists and Information Technologists
Full text available: 🔲 Pdf (197.71 KB)
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Classification and prediction algorithms for machine learning typically require all training data to be resident in memory during decision tree construction. Typically, a flat file is created from database or data warehouse data and loaded into memory .

Keywords classification, classification trees, data mining, decision tree induction, knowledge discovery in databases, machine learning, prediction, regression trees

2   Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)
November 1997 **Supercomputing '97:** Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)
Publisher: ACM
Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

3   High-throughput coherence control and hardware messaging in everest
A. K. Nanda, A. T. Nguyen, M. M. Michael, D. J. Joseph
March 2001 **IBM Journal of Research and Development** , Volume 45 Issue 2
Publisher: IBM Corp.
Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Everest is an architecture for high-performance cache coherence and message passing in partitionable distributed shared-memory systems that use commodity shared multiprocessors (SMPs) as building blocks. The Everest architecture is intended for use in ...

4   Distributed object implementations for interactive applications
Vijaykumar Krishnaswamy, Ivan B. Ganev, Jaideep M. Dharap, Mustaque Ahamad
April 2000 **Middleware '00:** IFIP/ACM International Conference on Distributed systems platforms
Publisher: Springer-Verlag New York, Inc.
Full text available: 🔲 Pdf (175.94 KB)
Bibliometrics Downloads (6 Weeks): 0, Downloads (12 Months): 22, Downloads (Overall): 329, Citation Count: 4

As computers become pervasive in the home and community and homes become better connected, new applications will be deployed over the Internet. Interactive Distributed Applications involve users in multiple locations, across a wide area network, who ...

5   A Parallel CORBA Component Model for Numerical Code Coupling
Christian Pérez, Thierry Priol, André Ribes
November 2002 **GRID '02:** Proceedings of the Third International Workshop on Grid Computing
Publisher: Springer-Verlag
Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

The fast growth of high bandwidth wide area networks has allowed the building of computational grids, which a constituted of PC clusters and/or parallel machines. Computational grids enable the design of new numerical simulation applications. For example, ...

6   Learning geoscience categories in situ: implications for geographic knowledge representation
Boyan Brodaric, Mark Gahegan

November 2001 **GIS '01**: Proceedings of the 9th ACM international symposium on Advances in geographic informat
systems

Publisher: ACM ◇ Request Permissions

Full text available: 🔧Pdf (2 24 MB)

Bibliometrics Downloads (6 Weeks): 2, Downloads (12 Months): 19, Downloads (Overall): 367, Citation Count: 1

This paper explores the development of categories shared in the field logging of a region by a team of geologist
Visualization, neural networks and spatial statistical tools are employed to gain insight into the complex space c
attributes observed, ...

Keywords category development, classification, geological fieldwork, information ontology, self-organizing ma
situated learning

7   From the journals ...
Anonymous
January 2003   **The Knowledge Engineering Review** , Volume 18 Issue 1
Publisher: Cambridge University Press

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

8   Graph-based tools for data mining and machine learning
Horst Bunke
July 2003   **MLDM'03**: Proceedings of the 3rd international conference on Machine learning and data mining in
pattern recognition
Publisher: Springer-Verlag

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Many powerful methods for intelligent data analysis have become available in the fields of machine learning and
data mining. However, almost all of these methods are based on the assumption that the objects under
consideration are represented in terms ...

Keywords edit cost learning, graph clustering, graph edit distance, graph matching, unique node labels

9   Locally adaptive dimensionality reduction for indexing large time series databases
Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani
June 2002   **Transactions on Database Systems (TODS)** , Volume 27 Issue 2
Publisher: ACM ◇ Request Permissions

Full text available: 🔧Pdf (1.48 MB)

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Similarity search in large time series databases has attracted much research interest recently. It is a difficult
problem because of the typically high dimensionality of the data. The most promising solutions involve perform
dimensionality reduction ...

Keywords Dimensionality reduction, indexing, time-series similarity retrieval

10 Disk cache replacement algorithm for storage resource managers in data grids
Ekow Otoo, Frank Olken, Arie Shoshani
November 2002   **Supercomputing '02**: Proceedings of the 2002 ACM/IEEE conference on Supercomputi
Publisher: IEEE Computer Society Press

Full text available: 🔧Pdf (166.85 KB)

Bibliometrics Downloads (6 Weeks): 2, Downloads (12 Months): 33, Downloads (Overall): 559, Citation Count: 4

We address the problem of cache replacement policies for Storage Resource Managers (SRMs) that are used in
Data Grids. An SRM has a disk storage of bounded capacity that retains some N objects. A replacement policy i
applied to determine which object ...

Keywords cache replacement algorithm, data staging, file caching, storage resource management, trace-driv
simulation

11 Color Image Segmentation for Multimedia Applications
N. Ikonomakis, K. N. Plataniotis, A. N. Venetsanopoulos
June 2000   **Journal of Intelligent and Robotic Systems** , Volume 28 Issue 1-2
Publisher: Kluwer Academic Publishers

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Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Image segmentation is crucial for multimedia applications. Multimedia databases utilize segmentation for the storage and indexing of images and video. Image segmentation is used for object tracking in the new MPEG-7 video compression standard. It is

Keywords color image segmentation, cylindrical distance metric, region growing, region merging

12 Ad-hoc networks beyond unit disk graphs
Fabian Kuhn, Aaron Zollinger
September 2003   **DIALM-POMC '03:** Proceedings of the 2003 joint workshop on Foundations of mobile computing
Publisher: ACM Request Permissions
Full text available Pdf (219.30 KB)
Bibliometrics Downloads (6 Weeks) 1, Downloads (12 Months) 39, Downloads (Overall) 1041, Citation Count 4

In this paper we study a model for ad-hoc networks close enough to reality as to represent existing networks, being at the same time concise enough to promote strong theoretical results. The Quasi Unit Disk Graph model contains all edges shorter than

Keywords ad-hoc networks, face routing, flooding, geometric routing, mobile computing, modeling, unit disk graphs, wireless communication

13 Combining EMS-Vision and Horopter Stereo for Obstacle Avoidance of Autonomous Vehicles
K. H. Siedersberger, Martin Pellkofer, Michael Lützeler, Ernst D. Dickmanns, Andre Rieder, Robert Mandelbaum, L. Bogoni
July 2001   **ICVS '01:** Proceedings of the Second International Workshop on Computer Vision Systems
Publisher: Springer-Verlag
Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

A novel perception system for autonomous navigation on low level roads and open terrain is presented. Built within the framework of the US-German AutoNav project, it combines UBM's object oriented techniques, known the 4D approach to machine perception ...

14 Evaluation of Neural and Genetic Algorithms for Synthesizing Parallel Storage Schemes
Mayez Al-Mouhamed, Hussam Abu-Haimed
August 2001   **International Journal of Parallel Programming** , Volume 29 Issue 4
Publisher: Kluwer Academic Publishers
Full text available Publisher Site
Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Exploiting compile time knowledge to improve memory bandwidth can produce noticeable improvements at runtime [1, 2]. Allocating the data structure[1] to separate memories whenever the data may be accessed in parall allows ...

Keywords heuristics, memory organization, parallel memories, performance evaluation, storage schemes

15 The Architecture and Performance of a Stochastic CompetitiveEvolutionary Neural Tree Network
N. Davey, R. G. Adams, S. J. George
January 2000   **Applied Intelligence** , Volume 12 Issue 1-2
Publisher: Kluwer Academic Publishers
Full text available Publisher Site
Bibliometrics Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

A new dynamic tree structured network—the Stochastic Competitive Evolutionary Neural Tree (SCENT) is introduced. The network is able to provide a hierarchical classification of unlabelled data sets. The main advant that SCENT offers over ...

Keywords dynamic neural tree, hierarchical clustering, self organising, structured knowledge

16 Learning Situation-Specific Coordination in Cooperative Multi-agent Systems
M. V. Nagendra Prasad, Victor R. Lesser
June 1999   **Autonomous Agents and Multi-Agent Systems** , Volume 2 Issue 2
Publisher: Kluwer Academic Publishers
Full text available Publisher Site
Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Achieving effective cooperation in a multi-agent system is a difficult problem for a number of reasons such as limited and possibly out-dated views of activities of other agents and uncertainty about the outcomes of interacting non-local tasks In this

Keywords coordination, learning, multi-agent systems

17 Fuzzy rule extraction from GIS data with a neural fuzzy system for decision making
Ding Zheng, Wolfgang Kainz
November 1999 **GIS '99**: Proceedings of the 7th ACM international symposium on Advances in geographic informati systems
Publisher: ACM   Request Permissions
Full text available   Pdf (1 07 MB)
Bibliometrics Downloads (6 Weeks) 6,   Downloads (12 Months) 60,   Downloads (Overall) 1,061,   Citation Count 0

Keywords GIS, decision-making, fuzzy rule inference, neural network

18 Comparing Parallel Functional Languages: Programming and Performance
H.-W. Loidl, F. Rubio, N. Scaife, K. Hammond, S. Horiguchi, U. Klusik, R. Loogen, G. J. Michaelson, R. Pena, S. Pri A. J. Rebon, P. W. Trinder
September 2003   **Higher-Order and Symbolic Computation** , Volume 16 Issue 3
Publisher: Kluwer Academic Publishers
Full text available   Publisher Site
Bibliometrics Downloads (6 Weeks) n/a,   Downloads (12 Months) n/a,   Downloads (Overall) n/a,   Citation Count:

This paper presents a practical evaluation and comparison of three state-of-the-art parallel functional language The evaluation is based on implementations of three typical symbolic computation programs, with performance measured on a Beowulf-class ...

Keywords Haskell, ML, automatic task decomposition, functional programming, load balancing, parallel computation, skeletons, implicit parallelism

19 View planning for automated three-dimensional object reconstruction and inspection
William R. Scott, Gerhard Roth, Jean-François Rivest
March 2003   **Computing Surveys (CSUR)** , Volume 35 Issue 1
Publisher: ACM   Request Permissions
Full text available   Pdf (517.25 KB)
Bibliometrics Downloads (6 Weeks) 20,   Downloads (12 Months) 191,   Downloads (Overall) 2,719,   Citation Count

Laser scanning range sensors are widely used for high-precision, high-density three-dimensional (3D) reconstruction and inspection of the surface of physical objects The process typically involves planning a set of views, physically altering the relative ...

Keywords View planning, object inspection, object reconstruction, range images

20 Overview of the MPEG-7 standard and of future challenges for visual information analysis
Philippe Salembier
January 2002   **EURASIP Journal on Applied Signal Processing** , Volume 2002 Issue 1
Publisher: Hindawi Publishing Corp.
Full text available   Pdf (930 86 KB)
Bibliometrics Downloads (6 Weeks) 1,   Downloads (12 Months) 8,   Downloads (Overall) 51,   Citation Count 1

This paper presents an overview of the MPEG-7 standard the Multimedia Content Description Interface It focu on visual information description including low-level visual Descriptors and Segment Description Schemes. The paper also discusses some challenges

Keywords MPEG-7, browsing, description schemes, descriptors, indexing, multimedia, navigation, retrieval, search, search engine